



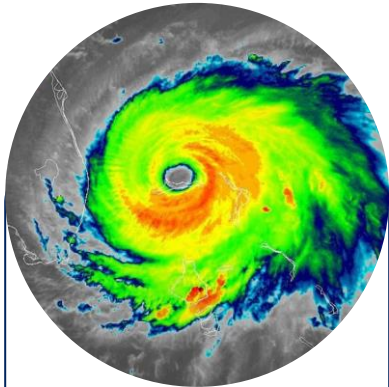
Optimizing Stormwater Management

June 13, 2024

Florida Stormwater Association
Emerging Technologies
Session

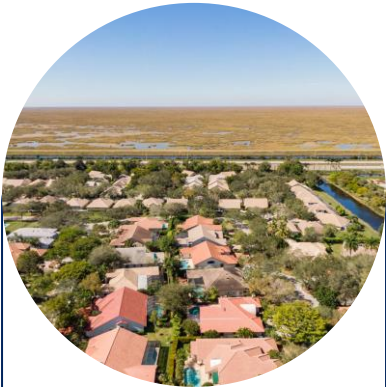


Addressing Global Water Issues with Smart Infrastructure



Extreme weather impacts such as **flooding** and **erosion** can be mitigated using smart infrastructure.

Climate Change & Extreme Weather Events



Increased **urbanization** and a changing **regulatory** landscape requires an integrated and resilient approach to wet weather management.

Aging Infrastructure & Growing Urbanization



Ensuring **safe water** and sanitation for all through protecting source waters and using stormwater as an asset.

Water Supply Issues

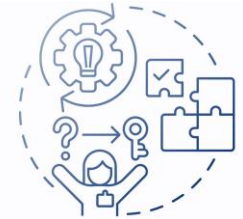
Traditional Infrastructure Challenges



Limited Resources & Budgets



Adapting to a Changing Environment



Operations & Maintenance

Challenges with the Traditional Approach

- Site Constraints
(e.g., limited land, infiltration, utilities, contamination)
- Cost & Disruption
- Performance Verification
- Passive and Non-adaptive

Journey to a Smart Watershed



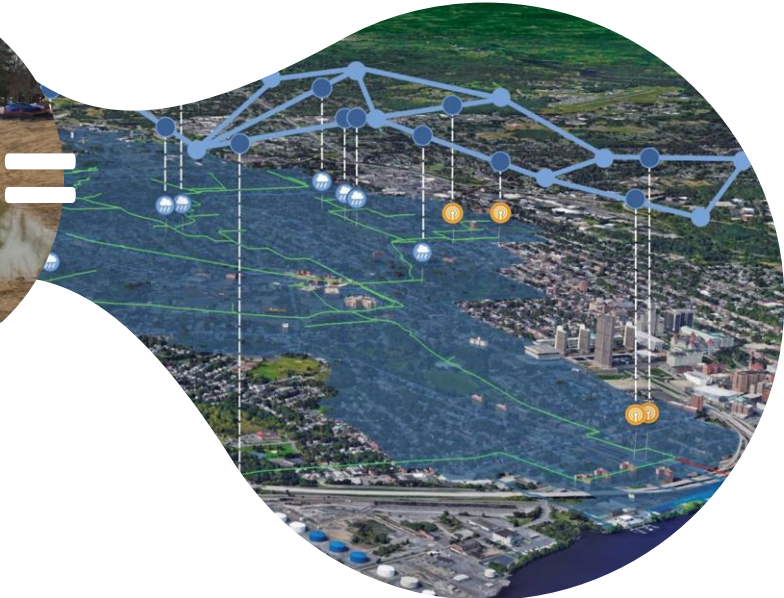
Monitoring & Analytics



Enhance Existing Infrastructure



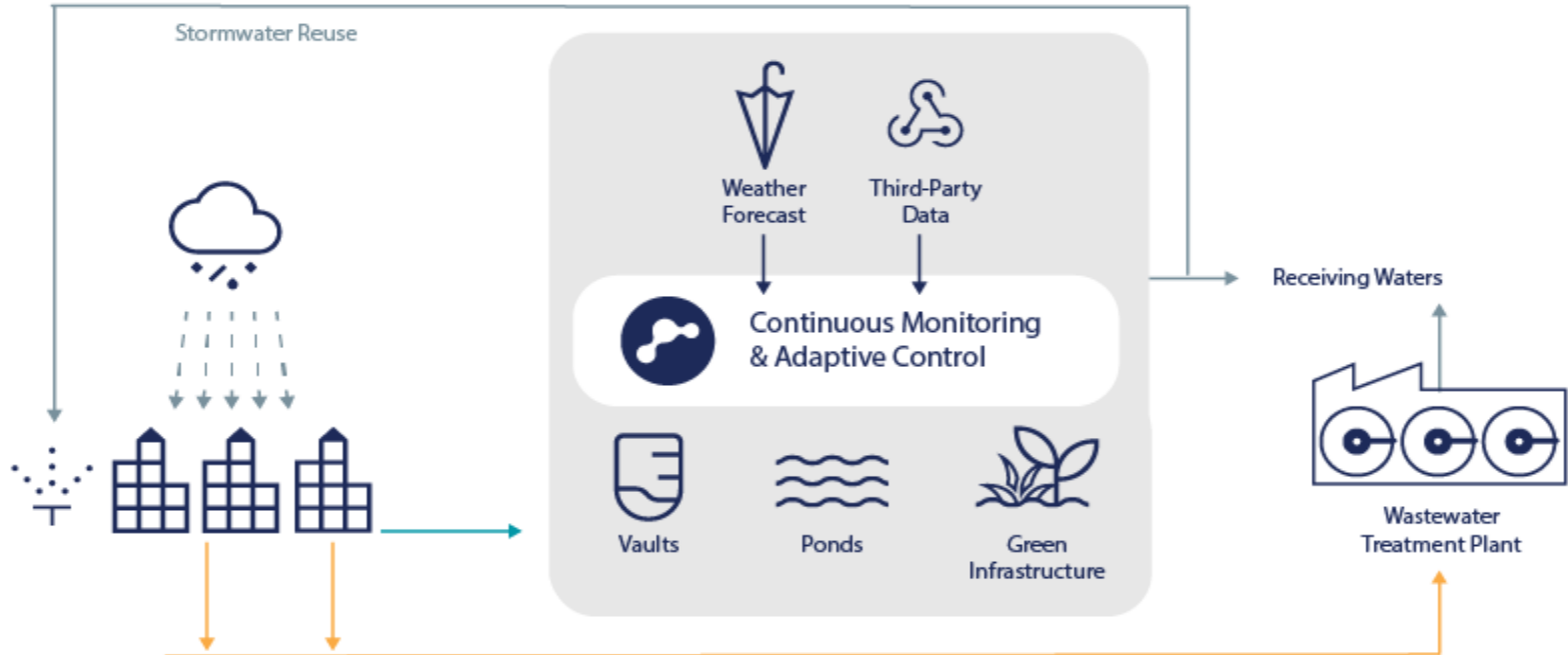
Optimize New Infrastructure



Smart Watershed Network

ADAPTIVE

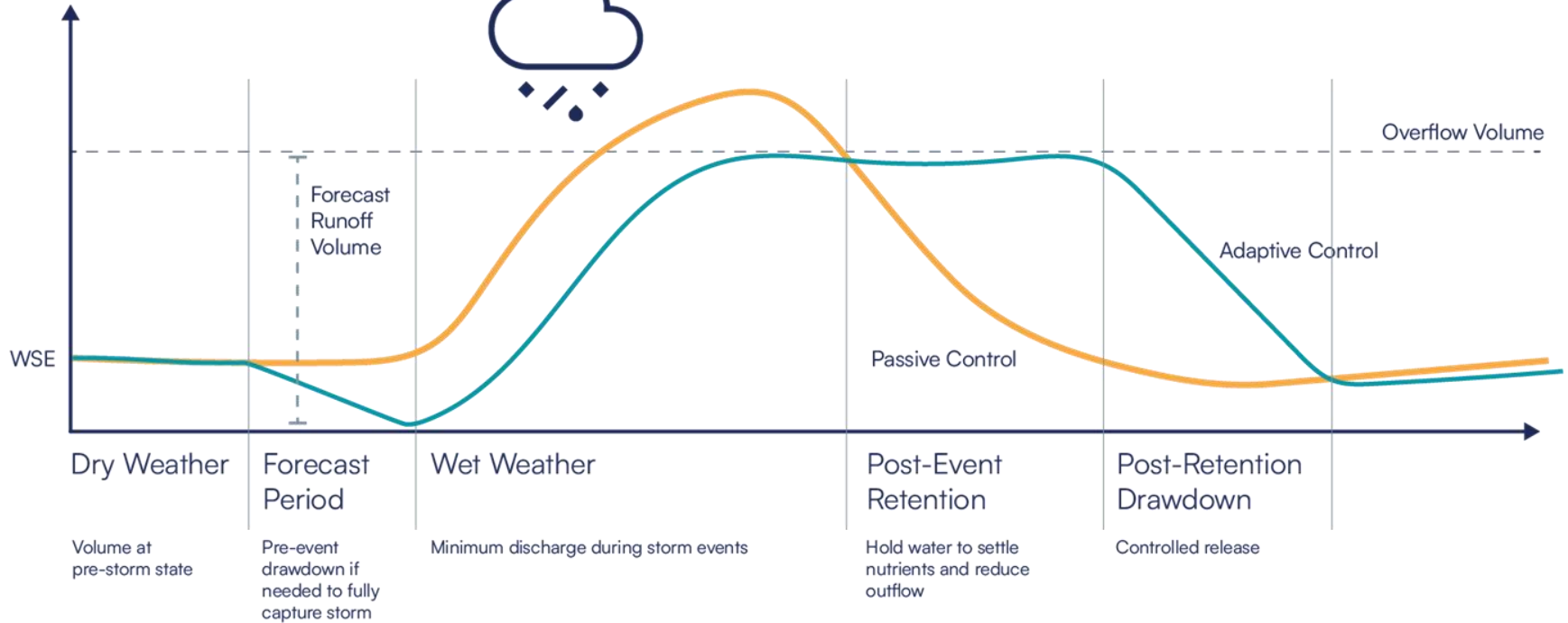
Optimized Upstream Storage & Downstream Release



MS4: Municipal Separate Storm Sewer System

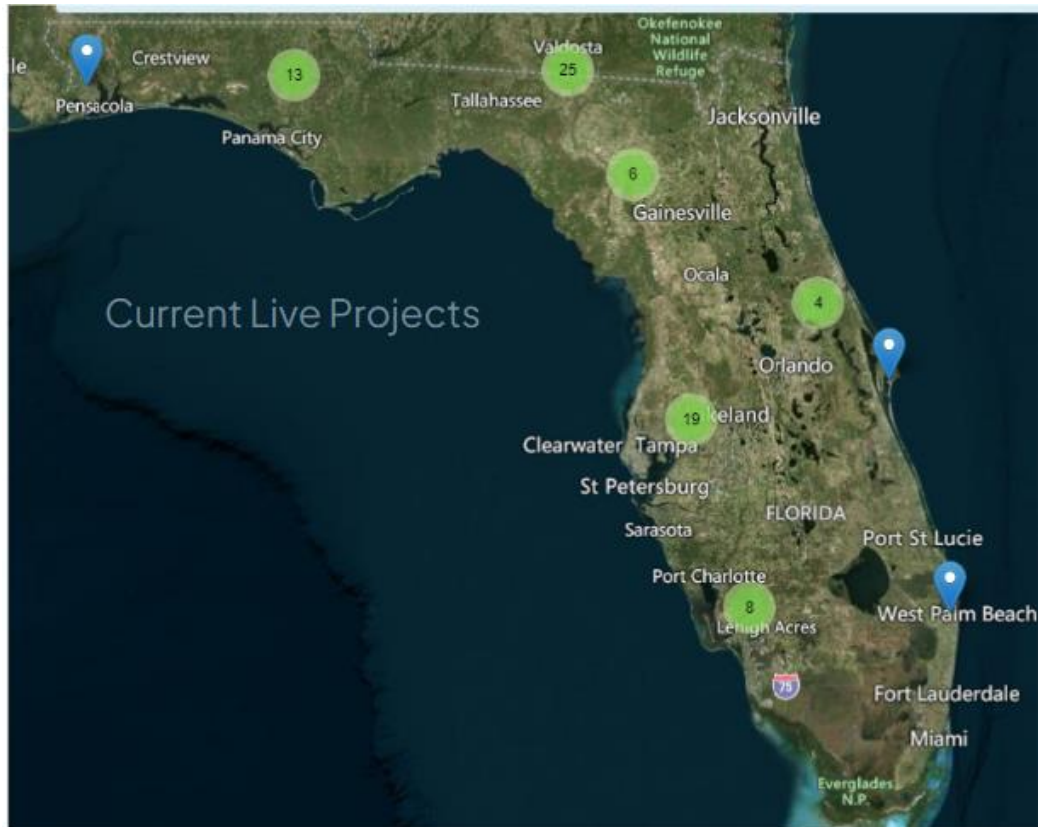
SSS: Separate Sewer System

Flood and Overflow Mitigation



One Platform, Multiple Benefits

- Flood Mitigation - Just in time storage
- Hydromodification Reduction - Minimize erosive flows
- Combined Sewer Overflow Mitigation - Optimize upstream storage and downstream release
- Water Quality Improvement - Increase residence time
- Water Conservation - Maximize capture and reuse
- Maximize Asset Performance - Improve compliance and O&M





Thank you for your
attention!

Please visit our Booth #
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